

PROGRESS REPORT
OF
FOREST ADMINISTRATION

IN THE



Jodhpur State, Rajputana,

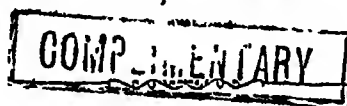
FOR THE YEAR 1892-93.

BY

PANDIT GOKAL DAS,

Superintendent of Forest Department.

*With a Review by Maharaj Dhiraj Col. Sir Pratap Singh, K. C. S. I.,
Musahib Ala, State Marwar.*



JODHPUR:

PRINTED AT THE "MARWAR STATE" PRESS.

1893.

Forest (1893.) Department.

MARWAR.

No. 120 of 1893-94.

FROM

PANDIT GOKAL DAS,

SUPERINTENDENT OF FORESTS,

Marwar.

TO

THE MUSAHIB-ALA,

Marwar,

THROUGH PANDIT SUKHDEO PARSHAD, B.A.,

JUDICIAL SECRETARY.

Dated Jodhpur, the 10th October 1893.

SIR,

I have the honor to submit the Progress Report of Forest Administration in the Marwar State for the year 1892-93.

I have the honor to be,

Sir,

Your most obedient servant,

GOKAL DAS,

Superintendent of Forests,

MARWAR.

REVIEW BY THE MUSAHIB ALA.

Dated, Jodhpur, 11th October, 1893.

1. *Area*.—The actual decrease in the area is 1,280 acres caused by adjusting Boundary Lines to meet the legitimate demands of the villagers. Although 9,240 acres in the vicinity of Jodhpur city have been transferred to Shikarkhana for preserving games yet Forest Conservancy Rules will be observed there.

2. *Boundaries*.—Pillars were kept in proper repairs. As the Surveying Staff was engaged in finishing off Settlement maps it could not be spared. The Assistant Settlement Officer has been ordered to take up the work immediately and to depute a Superintendent specially to look to it.

3. *Forest Law*.—Owing to the after effects of famine the newly passed Forest Act was not brought into force. Graver offences were made punishable under Marwar Penal Code and their number came up to 28. This increase is due to the stricter observance of the Reporting Rule.

4. *Forest Fires*.—Smaller area was destroyed by fire during the year under Report than in 1891-92. 940 acres were burnt.

5. *Grazing*.—It has not been a chief source of income as this year was one of plenty and hence few villagers resorted to Forest to graze their cattle.

6. *Fencing*.—Fencing was made wherever required for the protection of the plantations.

7. *Arboriculture*.—Two more plantations were added at Jodhpur and the expenditure increased by Rs. 3,250.

8. *Produce*.—There has been an appreciable increase in the produce of timber and firewood which shows that the forest was well looked after by the present Superintendent.

9. *Finance*.—There is shown a sudden decrease but it is rightly explained by the present Superintendent whose mode of calculation is founded on a sound basis.

TABLE OF CONTENTS.

SUBJECT.	PAGE.
INTRODUCTION—	
Inspection	1
CHAPTER I.—AREA AND BOUNDARIES—	
Area	1 to 2
Boundaries	2
CHAPTER II.—SURVEYS AND WORKING PLANS AND ANNUAL PLANS OF OPERATIONS—	
Surveys	2
Maps	3
Working plans	3
Annual plans of operations	3
CHAPTER III.—PROTECTION AND IMPROVEMENT—	
Establishment	3
Forest conservancy establishment	3
Arboriculture establishment	3
Controlling staff	3
Executive staff	3 to 4
Protection staff	4
Office establishment	4 to 5
General protection and breaches of the law	5 to 6
Compensations	6
Cattle impounded	6 to 7
Forest fires	7 to 8
Grazing	8
Grass	8 to 9
Fodder grass	9
Fencing	9

SUBJECT.	PAGE.
Natural reproduction	9 to 10
Reproduction by coppice shoots	10
Artificial Reproduction sowing and planting	11
Nurseries and plantations	11 to 12
Bamboo Rhizomes	12
Arboriculture	13
Fencing of plantations	13 to 14
Reboisement operations at Bada Bhakur	14
Exotics	14
Yield from plantations	14
Revenue from plantations	14
Expenditure on plantations	15
COMMUNICATIONS AND BUILDINGS—	
Roads and Bridges	15
Buildings	15
CHAPTER IV.—YIELD AND WORKING—	
Summary of Forest Produce removed during the year	15
Timber and fuel	16
Minor produce	16
Departmental operations	16 to 17
REMOVAL OF PRODUCE BY PURCHASERS—	
Timber	17
Firewood	17
Bamboos	18
Minor produce	18
Grass and Grazing	18
Minor produce	10
Free Grants	19 to 20
RIGHT-HOLDERS—	
Timber	20
Fuel	20

SUBJECT.	PAGE.
Grass and Grazing	20
Bamboos	20
CHAPTER V.—FINANCIAL RESULTS—	
General summary	21
Explanation for excess of Revenue	21
Explanation for excess of Expenditure	21
Financial Results	22 to 23
STATEMENTS ILLUSTRATING THE ANNUAL ACCOUNTS—	
Form No. 43 Area of Reserved Forests	24
„ 50 Register of breaches of Forest Rules	25
„ 51 Area of Forest tract protected from fire during the dry season	26
„ 52 Area of Plantations	27
„ 54 Outturn of timber and firewood	28
„ 55 „ „ Minor Forest produce	29
„ 56 Account of timber and other produce cut or collected by Raj Agency and brought to sale Depots or sold locally during the year	30 to 35
„ 58 Summary of Revenue and Expenditure of the Ranges...	36 to 38
„ 59 Account current	39
„ 60 Revenue received and outstanding on account of revenue	40
„ 61 Outstanding and liabilities on account of Contractors and Disbursers	41
„ 62 Financial Results	42

PROGRESS REPORT
OF
FOREST ADMINISTRATION
IN THE
MARWAR STATE
FOR
1892-93.

Introduction.

1. The Department was under the direct control of the Musahib Ala, Colonel Sir Pratap Singh, K. C. S. I., for the whole of the year under report.

2. Lala Daulat Ram Bimblat, who started Forest conservancy in Marwar in 1888, was called back to the Punjab, on promotion to the grade of Extra Assistant Conservator of Forests and the writer of this report, who obtained his Ranger's certificate in December 1884, was transferred from the Punjab in Lala Daulat Ram's stead.

Inspection.

3. Colonel Abbot, the Resident, Western Rajputana States inspected the Forests, their boundaries and fire-lines from Kana to Desuri and offered some very valuable suggestions regarding the settlement of rights. These suggestions are now being carried out.

CHAPTER I.

Area and boundaries.

Area.

4. The area of the Forests decreased by 10,520 acres during the

year as is shown by the statement below :—

State.	Forest Range.	Area in acres on 1st April 1892.	Additions during the year.	Excluded or transferred to other heads.	Area in acres at end of the year.	REMARKS.
Marwar.	Godwar ...	135,040	...	1,280	1,33,760	By adjusting boundary line.
	Sojat ...	46,720	...	...	46,720	.
	Jodhpur ...	9,240	...	9,240	...	By transfer to Shikarkhana Department.
	Total ...	1,91,000	...	10,520	1,80,480	

5. The area is likely to undergo a further decrease as soon as all the cultivations inside forests are surveyed and the boundary line adjusted, surveyed and plotted on to one inch G. T. S. maps (no other maps being yet available). This could not have been attempted up to this owing to many difficulties experienced in taking over these forests and to the weakness of the staff.

6. The remarks made in para 16 of last year's report, about Raipur forests still hold good.

7. All the existing pillars from Nana to Depawas were kept in repairs, no new pillars were made.

Boundaries.

8. No action appears to have been taken on the remarks made in para 22 of last year's report about the marking of Forest boundaries on the Land Revenue settlement maps.

CHAPTER II.

Surveys and Working Plans and Annual Plans of operations.

9. No surveys were undertaken during the year.

Surveys.

Maps.

10. The Forest Rangers made tracings of village maps, mentioned in para 27 of last year's Report, for their own use.

Working Plans.

11. None were attempted for reasons already recorded in last year's Report.

Annual Plan of operations.

12. A plan of operations for the year was prepared by Range officers and acted upon.

CHAPTER III.

Protection and improvement.

Establishment.

13. The staff of the Forest Department stood as follows at the close of the year:—

Forest Conservancy Establishment.

- 1 Superintendent.
- 3 Forest Rangers.
- 1 Head guard.
- 30 Forest guards.
- 1 English clerk.
- 1 Head office Munshi.
- 2 Range Munshis.
- 2 Peons.
- 2 Khalasis.
- 16 Jamiat Sawar (for Dak.)

Arboriculture Establishment.

- 1 Forester.
- 1 Forest guard.
- 12 Malis.
- 22 Camel men (Bhishtis.)

Controlling Staff.

14. Lālā Daulat Ram Bimbhat held charge of the Department till 10th February 1893 when he was relieved by Pandit Gokal Dass from the Punjab.

Executive Staff.

15. Forest Ranger Lālā Gokal Chand continued to hold charge of the Godwar Range till 25th September 1892 when as proposed in para 37. of last year's

report the Forests were divided into three Ranges and put under the charge of 3 Rangers as follows :—

RANGE.	FOREST RANGER.
Northern Godwar ...	Lala Daulat Ram.
Southern Godwar ...	„ Gokalchand.
Sojat ...	„ Jagaunath.

16. Lala Daulat Ram, who was trained in the Forester's class at Dehra Dun, by the Durbar reported his arrival after passing the final examination on 24th April 1892 and after 5 months apprenticeship was put incharge of Northern Godwar Range.

17. All the Rangers have worked satisfactorily during the year.

18. Forester Basant Ram incharge of Jodhpur Sub-Range was dismissed as his accounts were found to be unsatisfactory.

Protection Staff.

19. Lala Daya Chand was appointed Forester on Rs. 20 per mensem, on 15th February 1893 in place of Basant Ram dismissed.

20. One more post of a head guard was abolished during the year.

21. The pay of the Forest guards ranged from 5 to 6 generally during the year. There was one guard on Rs. 7, one on Rs. 8 and one head guard on Rs. 12 per mensem.

22. Steps have now been taken to effect improvements in their pay. During the year 15 guards were dismissed and 4 resigned.

23. The office clerk Manshi Dasu Ram continues to do his work in a most satisfactory manner.

Office Establishment.

24. Munshi Roop Narain the head Munshi is an excellent hand. He can copy English letters very neatly, he knows both Urdu and Hindi. Both he and the clerk have been recommended for promotion.

25. One more Munshi was entertained for Northern Godwar Range on Rs. 10 per mensem.

26. Office work is daily increasing with the development of the Forest Department, so an assistant Munshi will have to be appointed in the head office.

General protection and breaches of the Law.

27. The code of Forest Laws mentioned in para 47 of last year's report could not be brought into force owing to the Famine and its subsequent results. As usual, forest cases were dealt with under the provisions of the Marwar Criminal Code.

28. The statement of cases tried by the Hakims is given below:—

Description.	NUMBER OF OFFENCES.		Remarks.
	1891-92.	1892-93.	
Injury to Forest by fire ...	1	1	
Illicit wood and grass cutting,	2	16	
Grazing without permission ...	8	2	
Other offences ...	4	9	
Total ...	15	28	

29. Thus there were 13 cases more than previous year. The increase in illicit wood and grass cutting cases is chiefly due to the exertions of the protective establishment.

30. 8 cases were pending from previous years, 28 were instituted during the year making a total of 36. Of these 24 involving 44 persons were decided during the year 12 were still pending.

31. Convictions were obtained in 20 cases involving 34 persons.

The Grasias, Minas and Bhils still continue to give a great deal of trouble, but as special concessions have been proposed for the criminal tribes, it is hoped that they will learn to abide by Forest Regulations.

32. The following statement shows cases compounded by the Superintendent of Forests compared with 1891-92.

Compensations.

Range.	CASES COMPOUNDED.					Average per case.			Average per person.			REMARKS.
	Number of cases.	Number of Persons.	Amount.									
			Rs.	A.	P.							
Godwar ...	83	258	484	10	3	5	13	5	1	11	1	
Sojat ...	192	334	475	14	6	2	7	8	1	6	10	
Total ...	275	592	960	8	9	3	7	11	1	10	0	
1891-92...	232	605	895	12	0	3	13	9	1	7	8	

33. It is perhaps no secret that the Forest Department in Marwar is yet in its infancy, hence every effort is taken to make its objects known to the population and great deal of leniency is shown to cultivators. Only such offenders are sent to courts, who commit serious offences and do so repeatedly.

34. A new cattle pound was opened at Vagol in Northern Godwar Range.

Cattle impounded.

35. The following statement shows the number of cattle impounded in comparison to previous year:—

Range.	DESCRIPTION OF CATTLE.				Total.
	Cows.	Buffaloes.	Sheep and goats.	Others.	
Godwar ...	938	125	3,108	168	4,339
Sojat ...	277	67	853	20	1,226
Total ...	1,215	192	3,961	197	5,565
1891-92 ...	1,959	159	1,367	732	4,217

Forest Fires.

36. The area attempted in 1892-93 was 181,760 acres as compared with 191,060 in 1891-92. There were 7 occurrences of fire over 940 acres against 2 covering 1,234 acres in the previous year. The expenditure under this head (pay of fire watchers only) came to Rs. 138 against 57 in the previous year.

37. In Sewari forest fire came from Meywar and burnt an area of 840 acres.

38. In Joban and Mandigar fire came from Ghanerao (a private forest) and burnt an area of 70 acres.

39. In Northern Godwar there were 3 occurrences of fire over 20 acres, of which 2 were due to line-burning getting out of control and one to accident.

40. In Sojat Range there was one fire over 10 acres. The offenders were arrested on the spot, one was punished with an imprisonment of 2 months and the other for one month.

41. The main fire line between Meywar and Marwar and Merwara and Marwar was cut and burnt as usual by the right-holders of both sides.

42. The Mirpur-Jura, Ambet, and Jhilwara (all in Oodeypur) Jagirdars gave great deal of trouble in burning their lines. Notwithstanding several notices they did not send their men either to cut or to burn lines on their sides.

43. Several intermediate fire lines were also cut and burnt along the much frequented paths.

44. Owing to famine all the forests were open to grazing up to the commencement of the rainy season when they were closed. They were re-opened for grazing to the right-holders' cattle in February 1893.

45. Owing to copious rains during the monsoon months excellent crop of grass was produced outside the reserves and hence the villagers did not much avail of the forest grass. The revenue from this source has fallen for the same reason but it is not to be regretted as the less the forests are grazed over the better for them.

46. The following statement will show the number of cattle grazed in Marwar forests for the past two years:—

Range.	CATTLE.				Remarks.
	Right-holders.	Out-siders.	Free.	Total.	
Godwar ...	2,861	24	2,100	4,985	
Sojat ...	1,430	...	833	2,293	
Total ..	4,291	24	2,933	7,270	
1891-02 ...	9,616	1,080	3,262	13,954	

47. The decrease in the number of cattle is explained by the fact of there

Grazing.

Grass.

being no scarcity of fodder after the setting in of the rainy season.

Fodder Grass.

48. 1,190 maunds of grass cut in 1891-92 were despatched to Jodhpur during the year for the Sardar Rasala horses. Owing to the timely rains there was an exceptionally good crop of grass in all the forests. Right-holders cut very little of grass and even non-right-holders refused to cut grass at $\frac{1}{4}$ th share, that is, giving one share to the Department and taking three to themselves. Proposals to cut and stack it departmentally, for future use, were not sanctioned.

Fencing.

49. Fences of Sadri and Kajalbah nurseries were kept in repairs and no new fences were made.

50. Fences of Jodhpur plantations mentioned in para. 65 to 68 of last year's report belong to Arboriculture and will be mentioned separately.

Natural Reproduction.

51. It is reported to be very satisfactory in all the forests. Gorla Dhow (a latifolia), Kantia Dhow (a pendula), Kalia Siris, Gol (*Oxylina woodier*) & Kalia Shisham (*D. latifolia*) seedlings are doing well.

52. Protection against fires and the strict exclusion of sheep, goats and camels is the only thing required in these forests to ensure successful natural reproduction. Horned cattle, of course, should also be kept out of areas coppiced for re-generation.

53. The results of past five years' protection are visible at a glance when one looks at forests outside the reserves. Jagirdars who would never agree to forest conservancy being started in Marwar have begun to appreciate the advantages of protection.

54. There is nothing to be added to or subtracted from the remarks made in last year's report about the Grasias and their cattle with the exception, that they have paid or consented to pay compensation for unauthorized wood cutting and breaking up land for cultivations, so it is hoped that they will gradually learn to abide by forest laws. They are not criminal tribes but appear to be aborigines and naturally clamour against any interference with their long established independence.

55. Coppice operations in Marwar forests are yet in an experimental stage. Few patches coppiced in Godwar and Sojat Ranges were not properly fenced. So the measurements are not very reliable as several shoots have been eaten by cattle. On the whole results are very encouraging.

Reproduction by Coppice shoots.

56. At Saran last year's Dhowkumtia (qacacia) and Khair shoots have attained a height of 2' 3" to 3' 3".

57. In Sadhri forest the work stopped with the completion of the Bandha as there was no demand for fuel. Following are the measurements of some of coppice shoots taken in Sadhri forest:—

Number.	Species.	MEASUREMENTS.				REMARKS.
		One year old.	Two years old.	Three years old.	Four years old.	
1	Dhow ...	1' 4"	2'	2' 3"	2' 11"	
2	Khair ...	2' 8"	3' 1' 5"	4' 3"	4' 9"	
3	Adra ...	2' 6"	3' 2"	4' 8"	6' 2"	
4	Kumtia ...	2' 9"	3' 11"	5' 7"	6' 1"	
5	Bor ...	3	6' 9"	9' 3"	11' 9"	

58. Coppice operations were going on in Desnri forest when the year closed.

**Artificial Reproduction
sowing and planting.**

59. Sowings were made in several forests to fill up blanks with different kinds of seeds with various results.

60. Babul and Nim seed was sown in 2,290 pits one foot deep in Siryari, Saran, Kantalia, Gudha, Khorla, Vagol and Jujawar forests Babul germinated well, about $\frac{1}{3}$ rd of Nim also germinated but all the seedlings of both Babul and Nim died for want of water after a couple of months. Bamboo, Mohwa, Shisham and Sain seeds were sown in several forests with the same results as above. Bamboo seed did not germinate at all.

Nurseries and plantations.

61. In Sojat Range there are two nurseries, both covering an area of $\frac{1}{4}$ th of an acre. They are not required to fill up any blanks, so, in future they are to be treated as plantations. Following is the number of species in both of these nurseries.

Jaman	...	41	
Jinja	...	46	
Babul	...	285	
Gunda	...	21	
Bamboos	...	51	{ raised from rhy- zomes.
Nim	...	94	

62. Some abandoned fields near Ranpur temple were filled up with plants from the Sadhri nursery. This nursery is also not required any longer. It, in reality, is a sort of plantation covering an area of 2 acres and having following plants in it:—

Number.	SPECIES.	Height.	Girth.	Total number of plants.	REMARKS.
			Under		
1	Sissu ..	8"	1"	304	One year old 1892-93.
2	Mahura ..	5"	"	206	" "
	Jaman ..	9"	"	202	" "
	Tun ..	4"	"	5	" "
5	Tiblu ..	6"	"	149	" "
6	Khair ..	6"	"	0	" "
7	Darain ...	8"	"	9	" "
8	Sain ..	8"	"	12	" "
9	Walaiti Babul	21'	11"	90	Sown in 1889-90
10	Sissu ..	17'	1'4"	447	
11	Siris ...	3'6"	1'5"	61	Sown in 1891-92
12	Pateng ...	8'	1"	10	" "
13	Sain ..	8'9"	7"	198	" "
14	Tun ...	14'6"	7'½"	107	
15	Jiapota ...	4'	4"	19	
16	Mahura ..	3'	2"	441	
17	Sharifa ..	3"	1"	7	
18	Jaman ...	2'	1'2"	832	
19	Sanatha ...	13'	2'5"	3,140	
20	Nim ...	10'	3'5"	129	
21	Kanaj ...	2'0"	1"	233	
22	Sandal wood ...	10'6"	5'5"	2	1889-90
23	Bamboos ...	20'	3' under	0	Sown in 1891-92
24	Nimbu ...	1'0"	1"	1	1892-93

63. In Shiryari, Saran, and Kantalia forests 110 bamboo rhizomes were tried. 90 of these are doing well and are about 8 to 9 feet in height. This will in future, be tried on a larger scale.

Bamboo Rhizomes.

Plantations at Jodhpore.**Arboriculture.**

64. At the commencement of the year there were 4 plantations covering an area of 61 acres and having 8,250 plants of the following species:—

Nim	5,310	} 8,250
Shisham	...	...	1,510
Babul	...	...	723
Tun	...	...	102
Date palm	...	...	17
Other species	...	...	588

65. Two more plantations covering an area of 20 acres with 1,620 Nim and Shisham plants were added during the year under report.

66. 225 Shisham and Nim plants were transplanted along the circular road and 800 from Ratanada to Major Beatson's house, 600 into the Residency building compounds.

67. 1,500 Shisham and Nim plants were given gratis to the residents of the town for planting in their own compounds.

68. 50 Shisham, Nim, Mango and Jaman plants were planted at the top of the Bada-Bhaker hill (six miles from Jodhpur).

69. The Musahib Ala personally takes great interest in tree planting and his example is being earnestly followed by proprietors of waste lands.

Fencing of plantations.

70. 1,913 new golras were made for the protection of the road side plants.

71. 41,600 cft. of ditch were made round new plantation No. 6. The new plantations No. 5 and 6 and all the golras along the roads were fenced by thorns.

72. Fences of old plantations were kept in repairs.

73. A new nursery was started at the Forest Department well. 44,736 cft. of ditch were made round it. A portion of it was also fenced. Sissu, Nim and Siris were the only seeds sown in this nursery.

74. A pacea banda (stones only) was made to collect rain water for watering the plants at the top of the hill, but owing to rush of water the banda gave way and had to be repaired subsequently. After this there was no rain and it could not be seen whether it was sufficiently strong to stop water.

75. About a mile of a foot path was also made to the top of the hill but it was also washed away.

76. Fifty pits (6' deep and 6' diameter) were cut up (there was nothing but rock) and filled with earth brought from other places. Shisham, Nim, Am, Jaman, Pipal and Badla plants were put into them. All the plants are in a flourishing condition.

77. Stone golras were made round all the plants as a protection against pigs and deer. Each golra cost about Rs. 6 and each pit Rs. 7.

78. Shisham is the only exotic which has established itself well. Then comes Tun which is still struggling hard for existence.

79. 1,160 maunds of grass were cut from the Jodhpur plantations and stacked for use of the Raj bullocks.

80. Rs. 15 were realized by sale of Bor fruit sold from plantation No. I and Rs. 150 as compensation for damage done to trees.

Reboisement operations at Boda Bhakur.

Exotics.

Yield from plantations.

Revenue from plantations.

**Expenditure on
plantations.**

81. The expenditure stood as follows:—

	Rs.
Protective establishment ...	153
Watering	3,537
Malis	703
Feed and keep of bullocks ...	537
Temporary establishment ...	352
Planting	308
Fencing	998
Tools	11
Bada Bhakar reboisement ...	1,615
Miscellaneous	125
Total ...	8,339

that is Rs. 3,250 more than 1891-92. Increase is due to Bada Bhakar bunda and the addition of a new nursery and 2 plantations.

Communications and Buildings.**Roads and Bridges.**

82. Nothing was done.

Buildings.

83. Sewari cattle pound was repaired at a nominal cost of Rs. 3-10.

CHAPTER IV.*Yield and working.***Summary of Forest Pro-
duce removed during
the year.**

84. For details see Form No. 54 and 55 attached to the report.

Timber and fuel.

DESCRIPTION.	TIMBER.		FIRE WOOD.		REMARKS.
	1891-92.	1892-93.	1891-92.	1892-93.	
	cft.	cft.	cft.	cft.	
Removed by Raj Agency ...	9,552	.....	8,000	.....
„ „ „ Purchasers ...	14,000	17,350	152,844	17,608	
Free grants	1,100	9,917	118,000	292,493	
Right-holders	3,460	8,766	.....	1,560	
Total cubic feet ...	28,112	36,033	278,844	311,661	

85. The money value of the minor Forest Produce is given below:—

Minor Produce.

DESCRIPTION.	1891-92.	1892-93	REMARKS.
Removed by Raj Agency ...	14,322	9	
„ „ „ Purchasers ...	5,372	925	
Free grants	21,006	2,408	
Right-holders	2,449	1,064	
Total ...	43,189	4,406	

86 Whatever is given to the Right-holders without payment is treated as a free grant, while in reality no free grants were made during the year.

Departmental operations.

87. Neither timber nor fuel were removed by Raj Agency during the year. Only Mphwā worth Rs. 9-6-0 was collected and disposed of.

(C).—Bamboos.

91. Twelve thousand, six hundred and sixteen Bamboos were removed from the following forests :—

Minor Produce.

Name of Forest.	No.	AMOUNT.			REMARKS.
		Rs.	A.	P.	
Nana ...	104	4	0	0	
Behra ...	206	4	10	0	
Bijapur ...	3,421	77	5	0	
Sewari ...	1,083	24	0	0	
Lalara ...	657	14	15	3	
Sadhri ...	1,349	30	6	0	
Desuri ...	1,449	32	0	0	
Ganthi ...	144	3	4	3	
Vagol ...	2,852	64	11	0	
Kot ...	494	11	2	0	
Bansor ...	500	11	4	0	
Junjwar ...	217	4	15	0	
Kantalia ...	50	1	2	0	
Total ...	12,616	285	2	0	

(D).—Grass and Grazing.

92. Rs. 113 were realized as value of grass and Rs. 46 as grazing revenue making a total of Rs. 159 against Rs. 3,621 in 1891-92. Owing to timely rains of 1892-93 enough grass was produced out side the forests and hence decrease under this head.

(E).—Minor Produce.

Description.	ESTIMATED VALUE.		REMARKS.
	1891-92.	1892-93.	
	Rs.	Rs.	
Pala	324	.....
Mohya... ..	113	145	
Palas leaves	43	.....
Khaka... ..	544	108	
Honey and wax	182	109	
Mangoes	4	.....
Moha	17	.....
Sinias	22	.....
Kair	4	.....
Akra	3	.....
Ber	10	.....
Miscellaneous	126	29	
Total	1,392	481	

93. There are two main causes of decrease under this head, that is, there was no scarcity of fodder after the rains had set in July 1892 and that the Jodhpur forests which supplied pala and grass, were made over to the Sikarkhana Department.

III.—Free Grants.

94. The following statement will show free grants made to Right-holders :—

Description.	ESTIMATED VALUE.		REMARKS.
	1891-92.	1892-93.	
Timber	400	568	
Fuel	1,844	4,765	
Grass ... ..	.....	1,500	
Pasture	18,043	574	
Other produce	2,210	325	
Total	23,097	7,741	

95. There again the decrease in grass and grazing is due to the same cause as stated in para 92. There is an increase in the supply of bamboos and fuel chiefly due to better accounts being kept than in previous year.

IV.—Right-holders.

(a) TIMBER.

96. Right-holders of the B. and C. class villages were supplied with 7,693 cft. of timber for agricultural purposes and they had to pay Rs. 906 as their well dues. Of this sum Rs 812-8-0 were actually realized during the year.

97. One thousand and seventy-three cubic feet of different sorts of timber were given to non-cultivators of B. and C. villages for Rs 248-2-9 realized during the year.

(b) FUEL.

98. 390 maunds of firewood were given to C. class villages at reduced rates for Rs 16-14-0 realized during the year.

(c) GRASS AND GRAZING.

99. B. class villages pay nothing for grass but 546 maunds of grass were supplied to C. class villages for Rs 57-14-0 which were realized during the year.

100. 4,291 heads of cattle belonging to the right-holders were admitted into the forests and Rs 975-5-0 were charged from them at reduced rates. Of this sum Rs 972-6-0 were actually realized during the year under report. Rs 27 were realized for Mohya grass.

(d) BAMBOOS.

101. 272 bamboos were sold to the right-holders at reduced rates for Rs 4-2-0.

CHAPTER V.

Financial Results.

102. The following table compares the financial results of the year with those of preceding three years :—

Particulars.	1889-90.	1890-91.	1891-92.	1892-93.	REMARKS.
Receipts ...	5,399	20,918	30,754	9,691	Actual revenue realized during the year being Rs. 29,807 from Forests and Rs. 65 from plantations.
Charges...	7,653	10,092	15,975	11,223	
Deficit ...	2,254	.....	.....	1,532
Surplus...	.....	10,226	14,770	.....

103. The sudden decrease in revenue is due to the fact that the Jodhpur Sub-Range forests which alone brought a revenue of Rs. 7,000 in 1891-92 have been transferred to the Shikarkhana Department and the past year's figures included not only the outstandings of revenue but the value of saleable stock also as revenue.

104. During 1890-91 and 1891-92 fuel was being supplied to Sadhri banda and grass to the Sardar Rasala horses while both of these revenue swelling works were stopped during the year under report.

105. Keeping the above facts in view the financial results of the year are quite satisfactory.

106. The expenditure is Rs. 4,752 less than the previous year.

Particulars.	1891-92.	1892-93.	Plus or Minus.
A. Conservancy and works ...	6,829	805	-6,024
B. Establishment...	9,146	10,418	+2,272
Total ...	15,975	11,223	

107. The fall in revenue accounts for decrease in A. conservancy and works.

108. B. Establishment shows an increase of Rs. 2,272 as follows:—

- (a) Addition of one Ranger on Rs. 40 per mensem.
- (b) Travelling allowance of the above ranger at about Rs. 20 per mensem.
- (c) Addition of one Hindi writer for the third Ranger at Rs. 10 per mensem.
- (d) Increased pay and travelling allowance of Lala Daulat Ram, late Superintendent of Forests by Rs. 70 per mensem.
- (e) Increase in travelling allowance of the Superintendent and his subordinates.

109. The receipts and charges for the past three years compare as follows under the three main heads:—

Year.	Timber and other Departmental operations.		Other revenue.		Formation protection and improvement of forest.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.		Receipts.	Charges.	
1891-92	2,501	5,328	11,857	9,908	739	14,358	15,975	
1892-93	2,136	741	7,555	10,418	64	9,691	11,223	

(23.)

110. The following returns accompany the Report:—

Form	N ^o .	49
„	„	50
„	„	51
„	„	52
„	„	54
„	„	55.
„	„	56
„	„	58.
„	„	59
„	„	60
„	„	61
„	„	62

ANNUAL FORM NO. 49.

Forest Department, Marwar State. Area of the Forest 1892-93.

State.	Range.	AREA ON 1ST APRIL 1892.		Added during the year.	Excluded or transferred to other heads.	AREA ON 1ST APRIL 1893.		No. and date of Kafiya of addition or transfer.	REMARKS.
		Areas.	Equivalent in square miles.			Areas.	Equivalent in square miles.		
Marwar ...	Godhwar ...	1,35,040	211	...	1,280	1,33,760	209	By adjustment of boundary line.	
	Sojat ...	46,720	73	...	...	46,720	73	...	
	Jodhpur ...	9,240	14	...	9,240	...	...	By transfer to Shikar-khina Department.	
	Total ...	1,91,000	298	...	10,520	1,80,480	292		

ANNUAL FORM NO. 50.

Forest Department, Marwar State. Register of Breaches of Forest Rules during 1892-93.

FOREST RANGE AND (CIVIL PARGANA.	Cases pending from 1891-92.	NEW CASES OF THE YEAR.						Total cases.	DISPOSED OF DURING THE YEAR.						Cases pending at close of the year.	Remarks.
		Injury to forest by fire.	Unauthorized fell- ing or appropri- ation of wood and minor produce.	Grazing without permission or in tract in which grazing is prohi- bited.	Other offences.	Total new cases during the year.	CONVICTIONS.		ACQUITTALS.		TOTAL.					
							Cases.		Persons.	Cases.	Persons.	Cases.	Persons.			
A.—CASES TRIED BY HA- KIMS—																
Godhwar ...	4	...	10	1	1	12	16	5	11	4	10	9	21	7		
Sojat ...	4	1	6	1	8	16	20	15	23	...	...	15	23	5	
Total ...	8	1	16	2	9	28	36	20	34	4	10	24	44	12		
B.—CASES COMPOUNDED BY FOREST OFFICIALS—																
Godhwar ...	.....	1	47	31	4	83	83	83	258	...	...	83	258	.....	
Sojat ...	.....	...	116	70	6	192	192	192	334	...	...	192	334	.....	
Jodhpur ...	.....	...	.....	.....	...	...	...	...	...	...	...	...	...	.....
Total ...	.....	1	163	101	10	275	275	275	592	...	...	275	592	.....	
GRAND TOTAL ...	8	2	179	103	19	303	311	295	626	4	10	299	636	12		

ANNUAL FORM NO. 51.

Forest Department, Marwar State. Area of Forest Tracts protected from fire during the dry season 1893 to accompany Report for 1892-93.

RANGE.	Forest Tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1892.	DURING DRY SEASON OF 1893.			Cost during the season.	REMARKS.
				Area attempted to be protected.	Failures.	Actually protected.		
Godhwar	Sevari Block	1891	1,12,636	1,13,920	910	1,13,010	Rs 138	
	Desuri Do.	1891	21,120	19,840	20	19,820	.....
Sojat	Kuntalia Do.	.....	46,720	46,720	10	46,710	.....
Jodhpur	Jodhpur Do.	1889	9,240	.....	...	...	.....	Transfer to Sikarkhana Department.
	Total ...		1,89,716	1,80,480	940	1,79,540	138	

ANNUAL FORM NO. 52.

Forest Department, Marwar State. Area of Plantations.

Range.	Name of Plantation.	AREA IN ACRES.				RECEIPTS	CHARGES	REMARKS.
		On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 31st March 1893.	of the year.	of the year.	
Godhwar	...	2	...	...	2	...	22	
Jodhpur	Plantation No. 1 to 7	61	20	...	81	165	6,724	Two Plantations added also in this year.
	Total	63	20	...	83	165	6,746	

ANNUAL FORM NO. 54.

Forest Department, Marwar State. Outturn (in cubic feet solid.) of Timber and fuel during the year 1892-93 and Agency of Exploitation.

RANGE.	TIMBER IN THE ROUGH LOGS.					TIMBER IN THE ROUGH POLES.					SAWN OR SQUARED TIMBER.					MISCELLANEOUS.					FUEL.					Total.
	Raj Agency.	Purchasers.	Free Grants.	Right holders.	Total.	Raj Agency.	Purchasers.	Free Grants.	Right holders.	Total.	Raj Agency.	Purchasers.	Free Grants.	Right holders.	Total.	Raj Agency.	Purchasers.	Free Grants.	Right holders.	Total.	Raj Agency.	Purchasers.	Free Grants.	Right holders.	Total.	
Godhwar	8,312	9,800	5,395	23,527	...	...	...	...	...	...	...	...	...	...	...	15,124	2,66,117	1,560	2,83,101	3,06,628
Sojat	9,008	117	3,391	12,506	...	...	...	...	...	...	...	...	...	...	...	2,134	26,376	...	28,560	41,066
Total	17,350	9,917	8,760	36,033	...	...	...	...	...	...	...	...	...	...	...	17,609	2,92,403	1,560	3,11,661	3,47,694

ANNUAL FORM NO. 55.

Forest Department, Maricar State. Outturn of Minor Forest produce during the year 1892-93.

Range.	Description of produce.	PRODUCE REMOVED OR UTILIZED.										REMARKS.
		RAJ AGENCY.		PURCHASERS.		FREE GRANTS.		RIGHT-HOLDERS.		TOTAL.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
Godhwar	Bamboos (No.)	...	Rs. ...	12,368	281	...	Rs. ...	275	5	12,843	289	...
	Grass (maunds)	...	...	1,231	113	29,000	1,281	516	59	30,780	1,452	...
	Grazing (cattle)	...	...	165	46	2,100	415	2,861	635	5,126	1,006	...
	Moya (Head loads)	...	...	1,450	115	...	...	279	27	1,729	172	...
	Khaka do.	...	...	4,468	139	...	...	...	...	4,468	139	...
	Mohwa (maunds)	6	9	...	...	...	...	...	...	6	9	...
	Honey and Wax	...	...	...	109	...	...	...	...	...	109	...
	Miscellaneous	...	...	...	3	...	200	...	...	...	203	...
	Bamboos (No.)	...	...	50	1	...	...	...	...	50	1	...
	Grass (maunds)	...	...	...	...	7,300	228	...	...	7,300	228	...
Sojat	Grazing (cattle)	...	...	...	...	835	159	1,130	339	2,295	498	...
	Khaka (Head loads)	...	...	1,870	59	1,000	125	...	...	5,870	184	...
	Miscellaneous	...	...	...	26	...	...	...	...	...	26	...
	Total	6	9	21,803	925	43,255	2,408	5,391	1,064	70,455	4,406	...

RECEIPTS—							
I. Gross receipts.							
Godhwar Range.	...	...	121	...	...	...	...
Danda	...	...	1	...	...	...	...
Mial	...	...	34	...	...	...	...
Balies	...	...	4	...	...	...	...
Balinda	...	...	2	...	...	...	...
Thamba	...	...		...	...	...	...
Total cross receipts	...	...		...	...	...	...
GRAND TOTAL	...	...		...	...	...	...
				121	34	4	476
				1	89	7	
				34	4		
				4			
				2			
					1,000		2,385
				Total true disposal			6,577
II. Gross disposal.							
Sojat Range.	...	...	121	...	...	...	...
Dandas	...	...	1	...	...	...	...
Mial	...	...	34	...	...	...	...
Bali	...	...	4	...	...	...	...
Balinda	...	...	2	...	...	...	...
Thamba	...	...		...	...	...	...
Total cross disposal	...	...		...	...	...	...
Total disposal	...	...		...	...	...	...
				94	348	103	6,739
				4	34	119	
				2,137	3		702
				Total true disposal			
Balance at close of the year.							
Godhwar Range.	...	...		...	...	...	...
Kani	...	...		...	...	...	...
Dandas	...	...		...	...	...	...
Thobli	...	...		...	...	...	...
Balinda	...	...		...	...	...	...
Balies	...	...		...	...	...	...
Mial	...	...		...	...	...	...
Sojat Range.	...	...		...	...	...	...
Dandas	...	...		...	...	...	...
Mial	...	...		...	...	...	...
				162			
				162			
				14,848			

ANNUAL FORM NO. 56.—(Continued.)

Forest Department, Marwar.—Account of Timber and other Produce cut or collected by Raj Agency and brought to sale depots or sold locally during the year 1892-93.

PARTICULARS.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		PARTICULARS.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.	
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.
Godhwar Range ...	330		330		Sojat Range ...	330		330	
Total cross receipts ...			330		Total cross disposals ...			330	
Total receipts ...			330		Total disposals ...			1,717	
GRAND TOTAL ...			2,017		Balance at close of the year, Godhwar Range ...	350		330	
					Total balance ...			330	
					GRAND TOTAL ...			2,017	
					MISCELLANEOUS.				
Balance at commencement of the year.					DISPOSALS.—				
Godhwar Range.					I. TRUE DISPOSALS.				
Grass	3,358		3,358		Sold locally.				
Sojat Range	618		618		Godhwar Range				
Jodhpur Range.					Grass ...	1,134		1,134	
Grass ...	400				Sojat Range				
Bithoris	78				Grass ...	50		50	
Total balance ...					Jodhpur sub-Range.				
					Bithoris	78		78	

RECEIPTS—					
I. CROSS RECEIPTS.					
Godhwar Range.	...	534	...	432	432
Grass	...	534	...	400	400
Total cross receipts	...	534	...	2,100	2,100
Total receipts	...	534	...	534	534
GRAND TOTAL	...	4,988	...	2,634	2,634
Lost by re-measurement.					
Godhwar Range.	...		...	2,326	2,326
Grass ...	...		...	28	28
Used by the Department.	...		...	2,354	2,354
Godhwar sub-Range.	...		...
Grass ...	...		...
Total true disposals	...		...
II. CROSS DISPOSALS.					
Sojat Range.	...		...
Grass ...	...		...
Total cross disposals	...		...
Total disposals	...		...
Balance at close of the year.	...		...
Godhwar Range.	...		...
Grass ...	...		...
Sojat Range.	...		...
Grass ...	...		...
Total balance	...		...
GRAND TOTAL			...		4,988

ANNUAL FORM NO. 58.

Forest Department, Marwar State.—Summary of Revenue of different Ranges of Marwar Forests during 1892-93.

BUDGET HEADS.		REMARKS.									
		Gadwar Range.		Sojat Range.		Jodhpur sub-Range.		Total.			
		Ra.	A. P.	Ra.	A. P.	Ra.	A. P.	Ra.	A. P.		
I.—Timber and other produce removed from the Forests by Raj Agency—											
(a) Timber	...	431	7 6	51	14 6	...	...	486	5 0		
(b) Firewood and charcoal	...	369	11 11	67	1 3	...	...	376	13 2		
(c) Bamboos	...	157	5 6	...	...	...	...	65	5 0		
(d) Grass and other minor produce	...	6,338	11 6	793	10 9	1,835	7 6	9,032	13 3		
II.—Timber and other produce removed from the Forests by purchasers or consumers—											
(a) Timber	...	2,258	10 6	923	11 6	...	...	3,151	11 6		
(b) Firewood and charcoal	...	4,192	11 6	52	1 3	...	...	4,275	9 3		
(c) Bamboos	...	300	5 6	1	2 4	...	...	301	7 6		
(d) Grazing and Fodder grass	...	1,290	6 6	129	13 0	1,293	8 3	5,983	11 9		
(e) Other minor produce	...	422	8 9	93	10 6	3,313	12 6	3,859	15 3		
III.—Confiscated drift and waste wood—	...	159	2 6	10	15 6	...	...	170	2 6		
IV.—Revenue from Forests not managed by Raj—											
(a) Duty on Foreign Timber and other Forest produce	...	...	...	...	...	...	...	...	...
(b) Revenue from shared and private Forests	...	...	...	...	...	...	...	...	...
V.—Miscellaneous—											
(a) Fines and forfeitures	...	1,332	12 9	731	7 6	39	11 6	2,103	15 9		
(b) Refunds	...	17,101	2 5	3,191	3 3	9,512	7 9	29,807	13 3		
(c) Other sources	...	...	...	...	...	165	0 6	165	0 6		
Total	...	17,101	2 5	3,191	3 3	...	...	...	...
Arborescence	...	...	...	...	...	...	...	...	...
GRAND TOTAL	...	17,101	2 5	3,191	3 3	9,577	7 9	29,872	13 7		

ANNUAL FORM NO. 53.—(Continued.)

Forest Department, Marwar State. Summary of Expenditure of Marwar Forests during 1892-93.

BUDGET HEADS.		Disce- tion.	Godwar	Sojat.	Jodhpur.	Total.	REMARKS.
A.—CONSERVANCY AND WORKS.							
I.—Timber and other produce removed from the Forests by Raj Agency—							
(a) Timber	...	...	21	0	...	21	0
(b) Firewood	...	...	27	40	...	67	0
(c) Bamboos	...	...	...	...	...	...	...
(d) Grass and other minor produce	...	...	...	...	...	...	...
II.—Timber and other produce removed from the Forests by purchase or otherwise—							
III.—Confiscated, drift and waifwood—							
IV.—Revenue from forests not managed by Raj—							
(a) Duty on foreign timber and other forest produce	...	...	...	...	...	...	...
(b) Revenue from shared and private forests	...	...	...	...	...	...	...
V.—Rent of leased forests and payment to share-holders in forests managed by Raj—							
VI.—Live-stock, stores, tools and plants—							
(a) Purchase of cattle	...	...	...	...	...	...	...
(b) Feed and keep of cattle	...	...	...	...	...	...	...
(c) Purchase of tools, stores and plants	...	...	...	...	...	...	...
VII.—Communications and buildings—							
(a) Roads and bridges	...	...	...	...	...	...	...
(b) Mail lines	...	...	...	...	...	...	...
(c) Other works	...	...	...	...	...	...	...
VIII.—Demarcation, improvement and extension of forests—							
(a) Demarcation	...	...	...	...	...	...	...
(b) Compensation of land and rights	...	...	...	...	...	...	...
(c) Surveys and working plans	...	...	...	...	...	...	...
(d) Sowing and planting	...	...	...	...	...	...	...
(e) Protection from fire	...	...	...	...	...	...	...
(f) Other works	...	...	...	...	...	...	...
IX.—Miscellaneous—							
(a) Refunds	...	...	...	...	...	...	...
(b) Lay charges	...	...	...	...	...	...	...
(c) Other charges	...	...	...	...	...	...	...
TOTAL A. CONSERVANCY AND WORKS		80	3,053	1,113	1,113	12,106	866

ANNUAL FORM NO. 58.—(Continued.)

Forest Department, Marwar State. Summary of expenditure of different Ranges of Marwar Forests during 1892-93.

Budget Heads.	Direction.		Gothwar.		Sojat.		Jodhpur.		Total.		REMARKS.
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	
I.—SALARIES—											
D. Establishment.											
(a) Superior Establishment	2,574	10 3	
(b) Executive Establishment	1,311	10 8	
(c) Protective Establishment	2,131	0 2	
(d) Office Establishment	1,473	4 3	
(e) Pensionary Contribution	189	5 1	
II.—TRAVELLING ALLOWANCE—											
(a) Superior Establishment	1,415	2 1	
(b) Executive Establishment	637	0 2	
(c) Protective Establishment	211	0 3	
(d) Office Establishment	233	14 9	
(e) Keep and feed of conveyance supplied by Raj	
III.—CONTINGENCIES—											
(a) Stationary	21	13 0	
(b) Carriage of tents and records	61	5 0	
(c) Rents, Rates and Taxes	54	1 0	
(d) Official postage	75	11 4	
(e) Sundries	81	1 2	
Total B. Establishment	5,760	2 1	2,530	11 7	1,631	11 8	113	0 8	10,118	3 10	
Total of expenditure for A. Conservancy	80	3 0	331	1 11	131	11 3	82	12 16	800	3 9	
Arboriculture	8,339	0 0	
GRAND TOTAL	5,840	5 10	3,362	0 1	1,765	12 11	8,515	6 1	19,563	9 7	

ANNUAL FORM NO. 59.

Forest Department, Marwar State.				Account current for the year 1892-93.			
Rs.		A. P.		P.			

Cash balance		Rs.	A. P.	Rs.	A. P.	EXPENDITURE AS PER ANNUAL SUMMARY FORM NO. 58—		Rs.	A. P.	Rs.	A. P.
...	...	236	2 8	236	2 8	Forest conservancy	...	11,224	9 7	...	...
Revenue as per annual summary Form No. 58	...	29,992	13 5	29,992	13 5	Arboriculture	...	8,339	0 6	19,563	9 7
FOREST CASH REMITTANCES LOCAL—						FOREST CASH REMITTANCES LOCAL—					
Forest cheques drawn	...	19,438	15 11	19,438	15 11	Remittances to Treasury	...	29,974	2 8	29,974	2 8
Advances recoverable	...	13,083	3 1	13,083	3 1	Advances recoverable	...	13,155	0 3	13,155	0 3
						Balance in hand	...	38	6 7	38	6 7
Total	...	...	...	62,731	3 1			...	...	62,731	3 1

ANNUAL FORM NO. 60.

Forest Department, Marwar State.—Revenue received and outstandings on account of Revenue during 1892-93.

Range.	Particulars.	Outstandings at commencement of year.		Value of sales and other revenue during year.		Total.		Amount realised during year.		Balance due to the Department at end of year.	REMARKS.	
		Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.			
Godhwar	10,703	15	7,434	13	18,139	0	17,104	2	1,197	8	Difference of Rs-812-5-10 in closing balance is due to Mabkma Khas altering the original sums in bills for forest produce supplied to Havala Khas.
Sojat	.....	876	1	2,415	7	3,291	8	3,191	3	185	11
Jodhpur	.....	10,805	14	23	15	10,829	14	9,512	7	256	1
	Total ...	22,395	15	29,873	8	32,259	7	29,807	13	1,639	4	

ANNUAL FORM NO. 61.

Forest Department, Marwar State. Outstanding and liabilities on account of contractors and disbursers for 1892-93.

RANGE.	DEPARTMENT DEBTOR.						DEPARTMENT CREDITOR.						BALANCE DUE.						REMARKS.						
	At com- mence- ment of year.			Recoveries in cash and value of supplies and works done during the year.			At close of year.			At commen- cement of year.			Payments made during year.			At close of year.				To De- partment (outstand- ings.)			By De- partment liabilities.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.
Head office	6,480	6	6	6,480	6	6	234	13	5	6,283	15	8	6,518	13	1	38	6	7	...	...	...
Gokal Chand F. Ranger	2,197	10	6	2,197	10	6	1	6	9	2,241	2	3	2,242	9	0	44	14	6	...	...	...
Doulat Ram F. Ranger	793	9	9	793	9	9	...	...	...	815	0	0	815	0	0	21	6	3	...	...	...
Jagan Nath F. Ranger	1,817	12	7	1,817	12	7	66	1	10	1,832	14	1	1,898	15	11	81	3	4	...	...	...
Basant Ram Forester	8,272	2	3	8,272	2	3	19	14	7	8,265	15	11	8,285	14	6	13	12	3	...	...	...
TOTAL	19,561	9	7	19,561	9	7	322	4	7	19,438	15	11	19,761	4	6	6199	10	11	...	...	...

ANNUAL FORM NO. 62.

Forest Department, Marwar State.—Financial results of the year 1892-93.

RANGE.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY RAJ AGENCY.		OTHER REVENUE.		Formation, protection and improvement of forests.	TOTAL.		REMARKS.
	Receipts.	Charges.	Receipts.	Charges.		Receipts.	Charges.	
Godhwar ...	2,061	427	5,257	2,921	34	7,318	3,382	
Sojat ...	76	54	2,274	1,713	28	2,349	1,795	
Jodhpur ...	.....	63	24	143	.....	24	206	
TOTAL ...	2,136	544	7,555	4,777	62	9,691	5,383	
Direction ...	.....	.....	.....	5,840	.....	.....	5,840	
GRAND TOTAL ...	2,136	544	7,555	10,617	62	9,691	11,223	

